

**IN THE ABSTRACT**

Please cancel the abstract originally filed with this application, and replace it with the following substitute abstract.

## **ABSTRACT**

A method is provided for analyzing an object oriented program that supports dynamic class loading. A set A of classes in the program is identified, wherein each class within set A is capable of, during execution of the program, causing the loading of a class outside of set A. A first set of method calls belonging to the classes in set A are identified that, during execution of the program, are capable of calling only methods belonging to a class within set A. A second set of method calls belonging to the classes in set A are identified that, during execution of the program, are capable of calling methods belonging to a class outside set A. Data that identifies the first and the second set of method calls is stored for subsequent use.